CONTENTS Volume 64 2001

Volume 64 No. 1

Micropropagation of *Cunila galioides*, a popular medicinal plant of south Brazil
F. Fracaro, S. Echeverrigaray **1–4**

Factors affecting *in vitro* microrhizome production in turmeric
M.V. Shirgurkar, C.K. John, R.S. Nadgauda **5–11**

Somatic embryogenesis from leaf cultures of potato
T. JayaSree, U. Pavan, M. Ramesh, A.V. Rao, K. Jagan Mohan Reddy, A. Sadanandam **13–17**

The effectiveness of nitrogen sources in Feijoa somatic embryogenesis
L.L. Dal Vesco, M.P. Guerra **19–25**

A method to produce encapsulatable units for synthetic seeds in *Asparagus officinalis*
K. Mamiya, Y. Sakamoto **27–32**

Comparative study of somatic embryogenesis from immature and mature embryos and organogenesis from leaf-base of *Triticale*
V. Rashid, A. Rashid **33–38**

Direct somatic embryogenesis as a rapid and efficient system for *in vitro* regeneration of *Arabidopsis thaliana*
M.D. Gaj **39–46**

Transformation of azuki bean by *Agrobacterium tumefaciens*
T. Yamada, M. Teraishi, K. Hattori, M. Ishimoto **47–54**

Effect of polyethylene glycol and sugar alcohols on soybean somatic embryo germination and conversion
D.R. Walker, W.A. Parrott **55–62**

Micropropagation for recovery of *Cucumis hystrix*
M.E. Compton, B.L. Pierson, J.E. Staub **63–67**

Research notes

Interaction of environment and ABA and GA treatments on the maize anther culture response
J.J. Wassom, C. Mei, T.R. Rocheford, J.M. Widholm **69–72**

Neo-formation of flower buds and other morphogenetic responses in tissue cultures of *Melia azedarach*
W. Handro, E.I.S. Floh **73–76**

Gibberellic acid-induced changes in glutathione metabolism and anthocyanin content in plant tissue
A.B. Ohlsson, T. Berglund **77–80**

Cytoplasmic effects on the tissue culture response of callus from winter wheat mature embryos
M. Özgen, M. Türet, M. Avci **81–84**

Volume 64 Nos. 2–3

Special Issue: Reviews of Plant Biotechnology and Applied Genetics

Editor: Shri Mohan Jain

Editorial
S.M. Jain **85**

Genetic engineering and accelerated plant improvement: Opportunities and challenges
P.P. Jauhar **87–91**

Pathogenesis-related proteins and their genes in cereals
S. Muthukrishnan, G.H. Liang, H.N. Trick, B.S. Gill **93–114**

Genetic, physiological and molecular interactions of rice and its major dipteran pest, gall midge
N. Sardesai, K.R. Rajyashri, S.K. Behura, S. Nair, M. Mohan **115–131**

Bioengineering mint crop improvement
P. Veronese, X. Li, X. Niu, S.C. Weller, R.A. Bressan, P.M. Hasegawa **133–144**

Oxidative stress and physiological, epigenetic and genetic variability in plant tissue culture: implications for micropropagators and genetic engineers
A.C. Cassells, R.F. Curry **145–157**

Genetic enrichment of cereal crops via alien gene transfer: New challenges
A. Repellin, M. Båga, P.P. Jauhar, R.N. Chibbar **159–183**

Mutation induction and tissue culture in improving fruits
S. Predieri **185–210**

Instructions for authors **211–215**

Author index **217**

Contents Volume 64 **219–220**